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NEET NUCLEI — ATOMIC MASSES AND COMPOSITION OF THE NUCLEUS — PYQS

Max. Marks: 20 **Questions:** 5

Section A (MCQ) — 5 questions

Q.1 Which one of the following pairs of nuclei are isotones ? [AIPMT 2005]

(1) $_{34}Se^{74}$, $_{31}Ga^{71}$ (2) $_{38}Sr^{84}$, $_{38}Sr^{86}$

(3) $_{42}Mo^{92}$, $_{40}Zr^{92}$ (4) $_{20}Ca^{40}$, $_{16}S^{32}$

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Q.2 A nucleus represented by the symbol $^{A}_{Z}X$ has [AIPMT 2004]

(1) Z neutrons and A − Z protons

(2) Z protons and A − Z neutrons

(3) Z protons and A neutrons

(4) A protons and Z − A neutrons

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Q.3 The mass number of a nucleus is [AIPMT 2003]

(1) always less than its atomic number

(2) always more than its atomic number

(3) sometimes equal to its atomic number

(4) sometimes less than and sometimes more than its atomic number

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Q.4 A deuteron is bombarded on $_{8}O^{16}$ nucleus, then an α-particle is emitted. The product nucleus is [AIPMT 2002]

(1) $_{7}N^{13}$ (2) $_{5}B^{10}$ (3) $_{4}Be^{9}$ (4) $_{7}N^{14}$

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Q.5 X(n, α) $^{7}_{3}Li$, then X will be [AIPMT 2001]

(1) $^{10}_{5}B$ (2) $^{9}_{5}B$ (3) $^{11}_{4}Be$ (4) $^{4}_{2}He$

Scan or tap for the full solution

ANSWER KEY

Ques.	1	2	3	4	5						
Ans.	**1**	**2**	**3**	**4**	**1**						